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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,876	07/23/2001	Bernhard Scheuble	MERCK-1342 D1	5038
23599 7	590 01/11/2005		EXAM	INER
•	HITE, ZELANO & B	DUONG, TAI V		
2200 CLARENDON BLVD. SUITE 1400 ARLINGTON, VA 22201			ART UNIT	PAPER NUMBER
			2871	
		DATE MAILED: 01/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/909,876	SCHEUBLE ET AL.			
		Examiner	Art Unit			
		Tai Duong	2871			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address			
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply one of the reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>02 N</u>	ovember 2004.				
2a)□	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1 and 15-33 is/are pending in the app 4a) Of the above claim(s) 30,32 and 33 is/are v Claim(s) is/are allowed. Claim(s) 1,15-29 and 31 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	vithdrawn from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority document  application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
2) Notice 3) Information	et(s)  Dee of References Cited (PTO-892)  Dee of Draftsperson's Patent Drawing Review (PTO-948)  The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  The No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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Applicant's election with traverse of Species A (parallel edge alignment, claims 16, 18-27 and 29) in the reply filed on 11/02/04 is acknowledged. The traversal is on the ground(s) that the PTO has not established that it would pose an undue burden to examine the entire scope of the claims. This is not found persuasive because the search of two species plus plural twist angle ranges (claims 18-20), retardation ranges (claims 22-27) and examination of all the claims of the two species with different ranges would be a serious burden on the examiner. In addition, new claims drawn to different ranges of the homeotropic edge alignment species which have not been originally presented might be added later in subsequent amendments.

The requirement is still deemed proper and is therefore made FINAL.

Claims 30, 32 and 33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 11/02/04.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the elements recited in claims 1, 15-29 and 31 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure

number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

It is noted that there is <u>no</u> drawings filed in this application.

If the drawings will be provided, a Brief Description of the Drawings is required, as set forth in 37 CFR 1.74. See MPEP 608.01(f).

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 15-20, 22, 28, 29 and 31 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,327, 010. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-7 of the patent disclose all the recited features of the instant claims. That is, the instant claims are anticipated by the patent claims. All of the recited ranges of the instant claims fall within the ranges recited in the patent claims, e.g. the recited twist angle range of the instant claim 18 being disclosed in the condition (3) of claim 1 of the patent.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 21 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 21 is confusing because when the twist angle is essentially  $0^{\circ}$ , the liquid crystal is <u>not</u> twisted or non-twisted.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 15, 17, 18 and 22-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Baur et al "Electrooptic Properties of Some Twisted Structures" cited by Applicant.

Claims 1 and 15 recite alternative limitations which are directed to alternative embodiments. One embodiment is "the *parallel* edge alignment and a twist angle of  $0^{\circ}$  <  $10^{\circ}$  ( $60^{\circ}$ , claim 15) with conditions (3), (4)" while the other embodiment is "the *homeotropic* edge alignment". For the parallel edge alignment, claims 1 and 15 are anticipated by Fig. 3c (twist angle of 22.5). See discussions of the recited features on pages 2 and 3 of the Baur article. The optical retardation d. An is calculated from the data of Fig. 4 c) as equal to 0.2848  $\mu$ m with  $\Delta$ n = 0.0356.

Any inquiry concerning this communication should be directed to Tai Duong at telephone number (571) 272-2291.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

TVD

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